

# Labeeb Hasan Zaker

🌐 labeebhasanzaker.com | 📞 905 536 0138 | ✉ labeebzaker@gmail.com | 🔗 linkedin.com/in/labeeb-hasan-zaker  
| 🐙 github.com/zakerl

---

## EDUCATION AND INVOLVEMENT

### Mechatronics Engineering (GPA- 3.85)

MCMMASTER UNIVERSITY

SEPTEMBER 2018 - APRIL 2022

**Relevant courses:** Engineering Computation(python), Programming for Mechatronics (C language)

### McMaster Eco-Car Club CAVS Programmer

SEPTEMBER 2019 – PRESENT

- Implemented a **Matlab** code to receive data from the car sensors (**Sensor Fusion**)
  - **Collaborated** with teammates on developing the ACC (Adaptive Cruise Control) algorithm using **Matlab**
- 

## PERSONAL PROJECTS

### *BloggersInc/ HTML5, Semantic UI, CSS3, JavaScript, JQuery, Node.JS, Express.JS*

- Designed social media site which allows users to create blog posts, make comments and edit them.
- Used **MongoDB** to organize and store non-relational databases of **~30** users, blogs and comments
- Constructed a **secure** user login form using **Passport.JS** library

### *Vehicle Collision Avoidance Program/Python3*

- Lead development of an adaptive **Python** program that could detect obstacles, road conditions, and lane markers using **OpenCV**, **NumPy**, **matplotlib** libraries
- Employed **NumPy** to account for **data processing** on arrays of integer coordinates, thus increasing **accuracy** of computer detection results on lanes
- Implemented **CV2** library to **visualize** the detection results on various videos or images

### *Personal Portfolio/ HTML5, Bootstrap4, CSS3, JavaScript, JQuery, Node.JS, Express.JS*

- Created portfolio site where people can learn more about me, learn about my projects, and contact me.
  - Improved **site-responsiveness**, by adding **Bootstrap4** built-in **responsive breakpoints**, which adjusts and aligns the content based on current window size
  - Refined **communication** service by integrating **node-mailer** library to handle over a **100** monthly emails
- 

## Skills

**Front-end:** HTML5, CSS3, jQuery

**Languages:** JavaScript, Python, C/C++, Matlab

**Back-end:** Node.JS, MongoDB, Rest API

**Frameworks:** Bootstrap4, Express.JS, Git, ReactJS